

Curriculum Vitae: Debarupam Gogoi, Assistant Professor, Mechanical Engineering Department, Jorhat Engineering College

1. NAME : **MR. DEBARUPAM GOGOI**

2. FATHER'S NAME : **LATE SONARAM GOGOI**



4. ADDRESS

a) Residential : Pub Bongal Pukhuri, Bye Lane No: 2
Jorhat – 785 001, Assam, India

b) Office & Mailing : Assistant Professor
Mechanical Engineering Department
Jorhat Engineering College
Garmur, Jorhat, Assam – 785 007
India

c) Phone Number : 8638539394 (M)

d) Email : debarupam@gmail.com

5. (a) PRESENT POSITION HELD :Assistant Professor
Mechanical Engineering Department
Jorhat Engineering College
Garmur, Jorhat, Assam – 785 007
India

(b) Date of Joining :03/10/2007

(c) Teaching Experience :14 years

6. AREAS OF INTEREST: Vibration analysis and control;
Fault Diagnostic & Prognostic of Rotor system;
Finite Element Method; Functionally Graded Materials
CAD/CAM; Robotics, Soft Computing.

7. COURSES TAUGHT:

UG Level

1. Engineering Mechanics
2. Mechanical Drawing
3. CAD/CAM
4. Dynamics of Machinery & Control Engineering

5. Design of Machine Elements
6. Finite Element Method
7. Theory of Machines

8. EDUCATIONAL PROFILE:

<u>DEGREE</u>	<u>INSTITUTION/BOARD/ UNIVERSITY</u>	<u>YEAR</u>
B.E. (Mechanical Engineering)	Jorhat Engineering College/ Dibrugarh University	2000
M. Tech. (Computer Assisted Manufacturing)	Indian Institute of Technology, Guwahati (IITG)	2013

9. SHORT TERM COURSES ATTENDED (≥5 days):

SI NO.	Title of courses	Category	Organizer	Duration
1	Modern Maintenance practice in Different Plants	AICTE/ISTE	Assam Engineering Institute, Guwahati	09/06/2008 to 16/06/2008 (10 days)
2	Aerospace Propulsion for Beginners	QIP	IITG, Guwahati	08/12/2008 to 12/12/2008 (05 days)
3	Theory & Practice of Rotor Dynamics	AICTE	IITG, Guwahati	15/12/2008 to 19/12/2008 (05 days)
4	Advances in Biofuel Research	AICTE	IITG, Guwahati	29/11/2010 to 03/12/2010 (05 days)
5	Rotors Supported on Hydrodynamic Bearings	AICTE	IITG, Guwahati	06/12/2010 to 10/12/2010 (05 days)
6	Recent advancements in Microfluidics	AICTE	IITG, Guwahati	31/10/2011 to 04/11/2011 (05 days)
7	Testing & Quality Control of Plastic products	AICTE	CIPET, Guwahati	10/03/2014 to 21/03/2014 (12 days)
8	Multiphase Flow Reactors Insights through Experimental & CFD Techniques	AICTE	IITG, Guwahati	16/12/2014 to 20/12/2014 (05 days)
9	Genetic Algorithms for Engineering Optimization	AICTE	IITG, Guwahati	28/12/2014 to 01/01/2015 (05 days)
10	Advance AutoCAD	AICTE/NEQIP	TRTC, Guwahati	08/02/2016 to 29/02/2016 (22 days)
11	Designing Thinking Teaching in Engineering	MHRD	NITTTR, Kolkata	14/12/2009 to 18/12/2009 (05 days)

12	Faculty Induction Programme for Engineering College Teachers of NE	MHRD	NITTTR, Kolkata	26/04/2010 to 08/05/2010 (13 days)
13	Challenges in Non-Conventional Energy Sources	TEQIP III	Malnad College of Engineering, Hassan, Karnataka	09/04/2018 to 13/04/2018 (05 days)
14	Task Based Training (TBT-2016) (e-Yantra Lab Setup Initiative)	MHRD	Dept of Csc. IITB, Mumbai	23/09/2016 to 13/01/2017 (14 weeks)
15	Short Term Programme on Induction Training	MHRD	NITTTR, Kolkata at JEC	07/05/2018 to 17/05/2018 (11 days)
16	Faculty Development Program		IITM	09/07/2018 to 13/07/2018 (5 days)
17	Multimedia, Signal Processing and Selected Topics on Control System	TEQIP-III	Jorhat Engineering College	23/07/2018 to 03/08/2018 (12 days)
18	Fundamentals of Robotics and Artificial Intelligence	TEQIP	IITG, Guwahati	04/02/2019 to 08/02/2019 (05 days)

10. SHORT TERM COURSES ATTENDED (<5 days):

SI NO.	Title of courses	Category	Organizer	Duration
19	12th International Conference on Vibration Problems		IITG	14/12/2015 to 17/12/2015 (4 days)
20	Advanced Gear Engineering	QIP	IITG	21/11/2015 to 22/11/2015 (2 days)
21	Advances in Vibration Engineering	QIP	IITG	13/12/2015 to 15/12/2015 (3 days)
22	Rotor Dynamics	QIP	IITG	16/12/2015 to 18/12/2015 (3 days)
23	Simulink for System and Algorithm Modeling		JEC/Mathworks	28/01/2016 to 29/01/2016 (02 days)
24	Introduction to Robotics	MHRD	IITB/Tezpur University	29/04/2016 to 30/04/2016 (02 days)
25	Signal processing, Image Processing, Computer Vision and Application	TEQIP-III	JEC	26/03/2018 to 27/03/2018 (02 days)
26	Outcome Based Education (OBE)	NPIU-TEQIP	JEC	9/03/2018 to 10/03/2018 (02 days)
27	Foundation of Robotics, Automation and Finite Element Method	TEQIP 1.1/TEQIP 1.3	JEC/MCE	25/04/2018 to 28/04/2018 (4 days)

11. WORKSHOP ATTENDED

Sl No.	Programme Name	Organized by	Duration
1	Industry-Academia workshop "Technology Imperatives for Exploration and Production of Oil & Gas	PetroFed/ONGC	17/03/2010 to 20/03/2010 (4 days)
2	Industry-Academia workshop "Upstream Petroleum Technology"	PetroFed/OIL	30/05/2011 to 01/06/ 2011 (3 days)
3	Induction Program	TEQIP Cell, JEC	1st -21st August,2018

12. WORKSHOP/STTP COORDINATED

Sl No.	Programme Name	Organized by	Duration
1	Vibration Analysis of Rotary Components Using Modern tools	JEC	07/09/2018 to 08/09/2018. (02 days)
2	Understanding Entrepreneurship	JEC	14/09/2018 to 15/09/ 2018 (02 days)
3	Hands on Training on Overhauling of Engines, Turbo Chargers and Compressors	JEC	25/02/2019 to 27/02/2019 (03 days)
4	3D Printing Additive Manufacturing	JEC	12/03/2020 to 13/03/2020 (2 days)

13. Other Courses:

Sl. No.	Course	Institute	Duration
1	Master CAD/CAM	Central Institute of Tool Design (CITD), Hyderabad	6 months
2	C, C++ & Data Structure	ECIT, Hyderabad	5 months
3	AutoCAD	TATA INFOTECH, Hyderabad (Jorhat Branch)	1 month
4	PASCAL Programming	ICMS, Jorhat	2 months
5	HTML	NIIT, Jorhat	1 month
6	Introduction to Mechanical Vibration	NPTEL Online	8 Weeks
7	Principle of Vibration Control (2018)	NPTEL Online	4 Weeks
8	Machinery Fault Diagnosis and Signal Processing (2018)	NPTEL Online	12 Weeks
9	Robotics	NPTEL Online	8 Weeks
10	Automatic Control	NPTEL Online	8 Weeks
11	Machinery Fault Diagnosis and Signal Processing (2019)	NPTEL Online	12 Weeks
12	Noise Management & Control	NPTEL Online	12 Weeks

13	Fuzzy Logic and Neural Networks (Covid-19 impacted semester, 2020)	NPTEL Online	8 Weeks
14	Basics of Finite Element Analysis I	NPTEL Online	8 Weeks
15	Fuzzy Logic and Neural Networks (2021)	NPTEL Online	8 Weeks
16	Principle of Vibration Control (2021)	NPTEL Online	4 Weeks

14. Other Working Experience:

- Field Engineer in Petrotech Oil Company, Nazira, Sibsagar.
- AutoCAD Engineer in Kamrup Construction Co.(P) Ltd., Beltola, Guwahati.
- Guest Faculty in Jorhat Institute of Technology, Jorhat.
- Faculty member in North East Entrepreneurship Development Organization (NEEDO), Jorhat
- Faculty in Guwahati Institute of Technology Pvt. Ltd, Bamunimaidan, Guwahati.
- Field Assistant in Community Polytechnic Cell, H.R.H. The Prince of Wales Institute of Engineering and Technology, Jorhat.

15. Engagement with Professional Societies

- The Institution of Engineers (India), Life Member (M-149785-5), 2014.
- The Indian Society for Technical Education, Life Member (LM 100867),2014

16. Knowledge in Software:

- AutoCAD, Pro-E, CATIA, Unigraphics, SolidWorks, Mechanical Desktop, Autodesk Inventor
- ANSYS
- MASTERCAM, DELCAM
- MATLAB

17. Machine Language knowledge:

- C, C++, PASCAL, HTML, DHTML.

18. RESEARCH PAPERS PUBLICATION DETAILS IN CONFERENCES/ JOURNALS

- Debarupam Gogoi, Anghumala Kashyap, Manasi Saikia, Monti Rajkhowa, Sevika Sarmah, "Investigation for Variation of Performance of a Hexagonal Centrifugal Governor Control System with its Trefoils" World Journal of Engineering Research and Technology, Vol. 7, Issue 6, November 2021, ISSN 2454-695X, pp 148-174.
- Debarupam Gogoi, Akshay Kalul Saikia, Anupjyoti Burhagohain, Manisha Kardong, Subhajit Sen, "Experimentation of a TEC-Module Cooling System using Regenerative Braking with Model Based Approach" International Journal of Aerospace and Mechanical Engineering, Volume 8 – No.2, September 2021, ISSN (O): 2393-8609, pp 1-13.
- Debarupam Gogoi, Forijul Hoque, Khitish Kumar Bora, Rupak Saha, Abdus Salam, "Design of Four Stroke Engine Simulation Model to Optimize Volumetric Efficiency at

- Variable Stroke Length and Compression Ratio” International Journal of Aerospace and Mechanical Engineering, Volume 8 – No.1, March 2021, ISSN (O): 2393-8609, pp 1-7.
- Debarupam Gogoi, Kaushik Rabha, Nerson Boro, Raj Kumar & Nabachandra Singh, “Design and Fabrication of Manually Operated Reciprocating Type Pump Using Scotch Yoke Mechanism for Rural Application” International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Dec 2018, Vol. 8, Issue 6, ISSN: 2249-8001, pp 831-842. <http://dx.org/10.24247/ijmperddec201885>
 - Debarupam Gogoi & Koushik Rabha, “DESIGN OF A POWERLESS PUMP FOR RAINFED REGION BASED ON INVERSION OF A DOUBLE SLIDER CRANK MECHANISM” BEST: International Journal of Management Information Technology and Engineering (BEST: IJMITE), ISSN (P): 2348–0513, ISSN (E): 2454–471X Vol. 8, Issue 12, Dec. 2020, pp 1–18.
 - Debarupam Gogoi*, Anupam Konwar, Chen Aim Chakhap, Manav Jyoti Borah, Nayan Jyoti Hazarika and Nidarshana Chakravartty, “Optimizing Cooling Effect of Thermoelectric Generator in Design of an Air-Cooling System with Economic Aspect “, International Journal of Recent Scientific Research (IJRSR), Dec 2019, 10(12A), ISSN: 0976-3031, pp 36273-36278, DOI: <http://dx.doi.org/10.24327/ijrsr.2019.1012.4893>
 - Debarupam Gogoi*, Manav Jyoti Borah, Anupam Konwar, Nayan Jyoti Hazarika, Nidarshana Chakravartty, Chen Aim Chakhap, “Design of a Humidity Free Air Cooler using TEC-Module Heat Exchanger”, International Journal of Thermal Energy and Applications, 2020; 6(1): 42-51p. DOI: <https://doi.org/10.37628/jtea.v6i1.1011>
 - Rupak Saha, Md. Forijul Hoque, K.K.Bora, Abdus Salam and Prof. Debarupam Gogoi, “Fabrication of Spring Stiffness Measuring Apparatus Using Pneumatic System” International Journal of Engineering Trends & Technology (IJETT), June 2018, vol-60, issue-2, ISSN: 2231-5381, pp 76-82.

19. IMPORTANT CONTRIBUTIONS TO THE UNIVERSITY/COLLEGE/DEPARTMENT LEVELS APART FROM TEACHING

- Project member: e-Yantra Lab Setup Initiative(eLSI), 2016; Agency: IIT Bombay; Cost: Rs.200000/-

20. Achievement, if any: 1) NPTEL STAR Recognition by Centre for Continuing Education, IIT Madras, Dec 2019.

All information given above are best to my knowledge.

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Jorhat Engineering College,
Jorhat-785007.